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ABSTRACT OF THE DISCLOSURE

A method and composition for planarizing a substrate surface is provided. The polishing composition includes an oxidizer capable of oxidizing a metal undergoing planarization and yielding a complexing agent which complexes with the oxidized metal and a stabilizer such as a stannate salt. The composition may further include abrasive particles and/or inhibitors. The composition may be used in a multi-step polishing process including polishing a substrate surface to selectively remove a metal layer with respect to a barrier layer and dielectric layer and polishing a substrate surface using the composition to non-selectively remove the metal layer, a barrier layer, and a dielectric layer from the substrate surface.

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